

Curriculum Vitae Vaia Valiakou

Name: Vaia Valiakou

Position Title: PhD student

Education:

Institution and Location	Degree	Completion Date	Field of Study
Aristotle University of Thessaloniki, Faculty of Sciences, School of Biology	BSc	09/2013	Biology
National and Kapodistrian University of Athens, Faculty of Sciences, Departments of Biology, Chemistry and Nursing	MSc	11/2015	Clinical Biochemistry – Molecular Diagnostics

A. Personal Statement

I graduated from the School of Biology, Aristotle University of Thessaloniki, 2013 and completed my BSc thesis in the School of Health Sciences, University of Thessaly, studying the effect of *leptin* in breast cancer treatment by tamoxifen. In 2015 I received a Master's degree from the Departments of Biology, Chemistry and Nursing, National and Kapodistrian University of Athens, and completed my MSc thesis in the Analysis of Circulating Tumor Cells Laboratory, Faculty of Sciences, University of Athens, studying the *PIK3CA* mutations as an early detection marker for breast cancer. Currently I am a PhD student at Molecular Virology Laboratory, Hellenic Pasteur Institute, since 2016, studying the mechanisms of hepatic steatosis during hepatitis C virus infection. During the elaboration of the doctoral dissertation I have been given the opportunity to train students at undergraduate and postgraduate level, in laboratory techniques and scientific methods. At the same time, I work as an associate professor, teaching the science of Biology to high school students.

B. Positions and Honours

2011: Assistant embryologist in Assisted Reproduction Unit. Department of Obstetrics and Gynaecology, University of Thessaly, University Hospital of Larisa. Supervisor: Mavragani Pinelopi (Aristotle University of Thessaloniki).

2011-2012: BSc thesis internship. Faculty of medicine, School of Health Sciences, University of Thessaly. Project: *Study of the effect of leptin in breast cancer treatment by tamoxifen*. Supervisors: Aspasia Tsezou (University of Thessaly), Arsenakis Minas (Aristotle University of Thessaloniki).

2012-2013: Annual Research Fellowship as Biologist. Department of Biomedical Research and Technology, Centre for Research and Technology, Thessaly, Greece (CE.RE.TE.TH.) Project: Investigation of the molecular mechanisms implicated in: a) the process of breast cancer cell metastasis, and b) osteoarthritis, in primary chondrocytes, isolated from patients with osteoarthritis. Supervisors: Aspasia Tsezou (University of Thessaly) and Vasiliki Gkretsi (CE.RE.TE.TH.).

2014-2015: MSc thesis internship. Interdepartmental M.Sc, Faculty of Biology, Departments of Biology, Chemistry and Nursing, University of Athens. Project: Study of *PIK3CA* mutations as an early detection marker for breast cancer. Supervisor: Evi Lianidou (University of Athens).

2016-present: PhD studentship. Molecular Virology Laboratory, Hellenic Pasteur Institute, Faculty of Biology, School of Sciences, National and Kapodistrian University of Athens. Project: Cellular, Signaling and Metabolic Modifications after Hepatitis C Virus infection: identification of cellular targets involved in the development / progression of liver cancer. Supervisors: Urania Georgopoulou (Hellenic Pasteur Institute) and Ourania Tsitsilonis (University of Athens).

C. Contributions to Science

Supervision and training of two undergraduates

Grants

2017-2019: Hellenic Foundation for Research and Innovation (HFRI) PhD Fellowship grant, 08.2017-10.2019

2020-2021: Research Program: "Supporting Researchers with Emphasis on Young Researchers - Round B", NSRF 2014-2020, 04.2020-06.2021

Scientific conferences

-Eirini Karamichali, Pelagia Foka, Vaia Valiakou, Petros Iliadis, Domniki Loukaki, Konstantina Andreasaki, Georgia Papadopoulou, Ioannis Koskinas, Urania Georgopoulou.(2021) The pivotal role of exosomal cargo in the immune response

of chronic HCV patients after treatment with DAAs (poster presentation). 27th International Symposium on Hepatitis C Virus and Related Viruses (HCV 2021), a virtual conference (July 6 – 9, 2021).

-Vaia Valiakou, Petros Iliadis, Eirini Karamichali, Urania Georgopoulou, Ioannis Koskinas, Pelagia Foka. (2021) Fine Tuning of Angiopoietin-like proteins in HCV-Related Liver Disease. (poster presentation). 11th International Congress of Internal Medicine (July 4-6, 2021, Athens)

-Vaia Valiakou, Petros Iliadis, Eirini Karamichali, Ioannis Koskinas, Urania Georgopoulou, Pelagia Foka. (2021) Differential expression of the lipid metabolism regulators Angiopoietin-like proteins (ANGPTLs) in HCV infection and treatment. (e-poster presentation). Hellenic Society for Biochemistry and Molecular Biology, a virtual congress (May 20-22, 2021)

-Vaia Valiakou, Petros Iliadis, Eirini Karamichali, Ioannis Koskinas, Urania Georgopoulou, Pelagia Foka. (2020) Differential expression of lipid regulator factors Angiopoietin-like proteins in HCV Infection (oral presentation). 18th Panhellenic Hepatology Conference (September 11-13 2020, Athens)

-Elisavet Ioannidou, Vaia Valiakou, Georgia Papadopoulos, Eirini Karamichali, Urania Georgopoulou, Pelagia Foka (2019). The epigenetic factor LSD2 mediates virus-host immunometabolic interactions in HCV infection (poster presentation). Hellenic Society of Biochemistry and Molecular Biology and 7th Young Scientists Forum of HSBMB (November 28-December 1 2019, Athens)

-Georgia Papadopoulos, Stavroula Petroulia, Vaia Valiakou, Petros Eliadis, Alexios Dimitriadis, Eirini Karamichali, Athanasios Kakkas, Avgi Mamalaki, Pelagia Foka, Urania Georgopoulou (2019) Impact of LSD1 in HCV infection and liver disease progression (poster presentation). 3rd International Joint Retreat of the Young Pasteur Institute Researchers StaPa - YouPI (July 12-15 2019, Rome).

-Georgia Papadopoulos, Stavroula Petroulia, Vaia Valiakou, Alexios Dimitriadis, Eirini Karamichali, Avgi Mamalaki, Pelagia Foka, Ioannis Koskinas, Urania Georgopoulou (2019) LSD1 as a key factor in hepatic steatosis in HCV-infection and hepatocellular carcinoma (oral presentation). 17th Symposium of Hellenic Association for the Study of Liver (May 09-11 2019, Kalamata)

-Vaia Valiakou, Petros Eliadis, Eirini Karamichali, Georgia Papadopoulos, Stavroula Petroulia, Alexios Dimitriadis, Urania Georgopoulou, Pelagia Foka(2018) A role for regulatory factor ANGPTL-3 in HCV-mediated modulation of host lipid metabolism (poster presentation). HCV2018: 25th International Symposium on Hepatitis C Virus and Related Viruses (October 8-11 2018, Dublin)

-Georgia Papadopoulos, Stavroula Petroulia, Vaia Valiakou, Alexios Dimitriadis, Eirini Karamichali, Avgi Mamalaki, Pelagia Foka, Urania Georgopoulou (2018) LSD1 and hepatic steatosis in HCV-infection (poster presentation). 4th meeting of Masters and Postdoctoral Researchers, Hellenic Pasteur Institute (September 20 2018, Athens)

-Vaia Valiakou, Pelagia Foka, Petros Eliadis, Eirini Karamichali, Alexios Dimitriadis, Georgia Papadopoulos, Ioannis Koskinas, Urania Georgopoulou (2017). ANGPTLs in the development of hepatic steatosis in HCV-infection and hepatocellular carcinoma (poster presentation). 3rd meeting of Masters and Postdoctoral Researchers, Hellenic Pasteur Institute (September 28 2017, Athens)

- Pelagia Foka, Petros Iliadis, Eirini Karamichali, Vaia Valiakou, Ioannis Koskinas, Urania Georgopoulou. (2017) Lipid Metabolism in HCV Infection-Correlation with HCC. (Oral presentation). 15th Panhellenic Hepatology Conference (May 25-27 2017, Larissa)

D. Additional Information-Publications

1. Foka P, Dimitriadis A, Karamichali E, Kochlios E, Eliadis P, Valiakou V, Koskinas J, Mamalaki A, Georgopoulou U. HCV-Induced Immunometabolic crosstalk in a Triple-Cell Co-Culture Model Capable of Simulating Systemic Iron Homeostasis. *Cells*. 2021 Aug 30;10(9):2251.
2. Valiakou V, Eliadis P, Karamichali E, Tsitsilonis O, Koskinas J, Georgopoulou U, Foka P. Differential Expression of the Host Lipid Regulators ANGPTL-3 and ANGPTL-4 in HCV Infection and Treatment. *Int J Mol Sci*. 2021 Jul 26;22(15):7961.
3. Papanikolaou V, Stefanou N, Dubos S, Papathanasiou I, Palianopoulou M, Valiakou V, Tsezou A. Synergy of leptin/STAT3 with HER2 receptor induces tamoxifen resistance in breast cancer cells through regulation of apoptosis-related genes. *Cell Oncol (Dordr)*. 2015 Apr;38(2):155-64.
4. Giotopoulou N, Valiakou V, Papanikolaou V, Dubos S, Athanassiou E, Tsezou A, Zacharia LC, Gkretsi V. Ras suppressor-1 promotes apoptosis in breast cancer cells by inhibiting PINCH-1 and activating p53-upregulated-modulator of apoptosis (PUMA); verification from metastatic breast cancer human samples. *Clin Exp Metastasis*. 2015 Mar;32(3):255-65.

5. Gkretsi V, Papanikolaou V, Dubos S, Papathanasiou I, Giotopoulou N, Valiakou V, Wu C, Malizos KN, Tsezou A. Migfilin's elimination from osteoarthritic chondrocytes further promotes the osteoarthritic phenotype via β -catenin upregulation. *Biochem Biophys Res Commun*. 2013 Jan 11;430(2):494-9.